MIGHTYLITE Elite
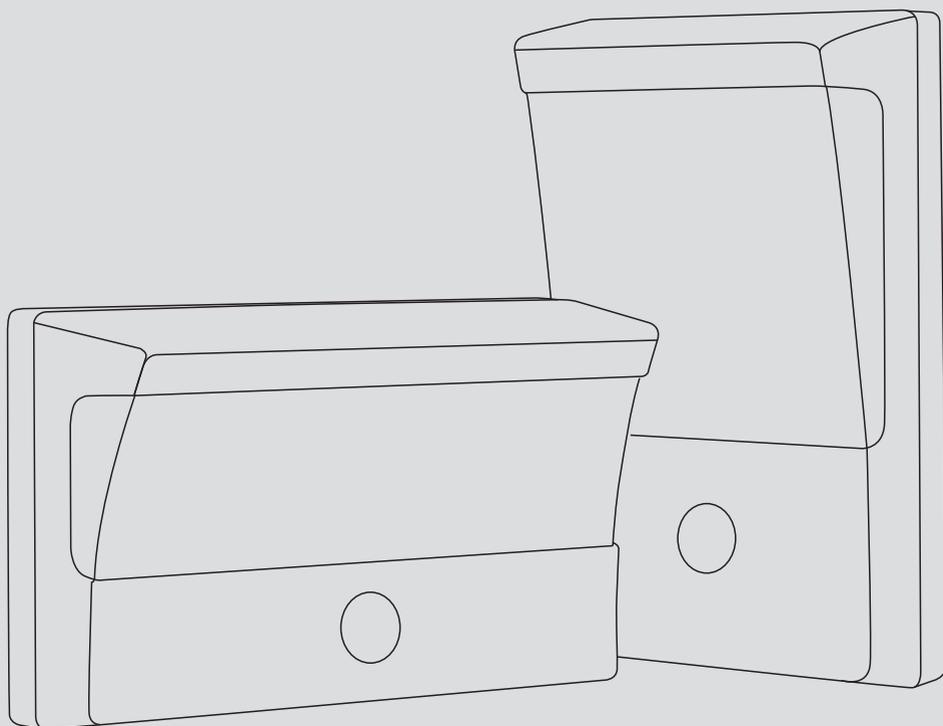
Mightylite Elite 16W LED Wall Light with PIR

hylite

Installation & operating instructions

HYLITE MIGHTYLITE ELITE WITH PIR – INSTALLATION AND OPERATING INSTRUCTIONS

The Hylite Mightylite Elite LED wall light is an outdoor light, ideal for providing courtesy and security lighting around doorways, building exteriors, and in corridors and walkways.

The unit requires connection to a 230 AC 50Hz mains electricity supply.

1. IMPORTANT SAFETY INSTRUCTIONS

WARNING: THIS PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN, AND CHECKED TO ENSURE IT IS SAFE, BEFORE USING

PLEASE FOLLOW THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL AND OPERATE THIS LIGHT

1.1. IMPORTANT INSTALLATION INSTRUCTIONS

⚠ The risk of electric shock should be minimized by the installation of appropriate safety devices including the incorporation of an RCCB (Residual Current Circuit Breaker) into the main distribution board.

⚠ DO NOT wire this light into the lighting circuit. Use a switched fused spur. Cables should always be protected against short circuit and overload by use of an RCD.

⚠ Ensure the voltage marked on the product is the same as the electrical power supply to be used.

⚠ DO NOT install the light where it is likely to be knocked or hit or in conditions where the ambient temperature may be over 45°C such as shower rooms, saunas; near exhaust outlets e.g. boiler flue, dryer outlet.

⚠ This floodlight must be mounted on a non-flammable surface.

1.2. IMPORTANT OPERATION & MAINTENANCE INSTRUCTIONS

⚠ DO NOT position the light near flammable or combustible materials (such as wood, cloth, paper) or near flammable, combustible or explosive liquids, solids, gases or equipment.

⚠ ALWAYS disconnect the mains power supply before servicing or performing any maintenance.

⚠ ALWAYS maintain the light in good condition, with repairs only undertaken by a qualified electrician.

⚠ ONLY carry out repairs using genuine parts. Non-authorized parts may be dangerous and will invalidate the warranty.

1.3. PARTS INCLUDED

1 x Mightylite Elite LED Wall light with PIR
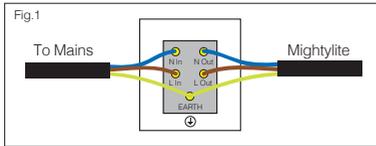4 x No.6 screws
4 x Wall plugs

1.4. TOOLS REQUIRED

Electric/hand-held drill
No.8 masonry drill bit
Electricians screwdriver
Large cross-head screwdriver
Small cross-head screwdriver
Small sharp knife
Wire cutters

THIS PRODUCT IS SUITABLE FOR WALL MOUNTING ONLY

2. WIRING REQUIREMENTS

- The unit requires connection to a 230 AC 50Hz mains electricity supply.
- It is recommended that the unit is connected to the domestic lighting circuit via a 5 amp fused spur and using Twin & Earth 2-Core round flexible cable of at least 1mm² gauge (waterproof cable should be used for outdoor installations).
- It is also advisable to install a single pole wall switch to allow easy control of the light (Fig. 1).

Fig.1

To Mains   Mightylite

N In   N Out
L In   L Out
EARTH

3. INSTALLATION INSTRUCTIONS

3.1 CHOOSING A MOUNTING LOCATION

The PIR detector on the light responds to changes in temperature as well as movement, therefore please ensure that the following steps in choosing a location:

- Mount the floodlight onto solid brick, masonry or woodwork.
- Avoid positioning the light near heat sources such as hot ventilator ducts, air conditioning units, street lighting or traffic which may interfere with its operation.
- Avoid pointing the light towards objects that may move in the wind, such as trees or shrubs, or highly reflective surfaces.
- When positioning the light, note that the PIR sensor is more sensitive to a heat source moving across its coverage area and less sensitive to a heat source that moves directly towards the PIR sensor [Fig.2].
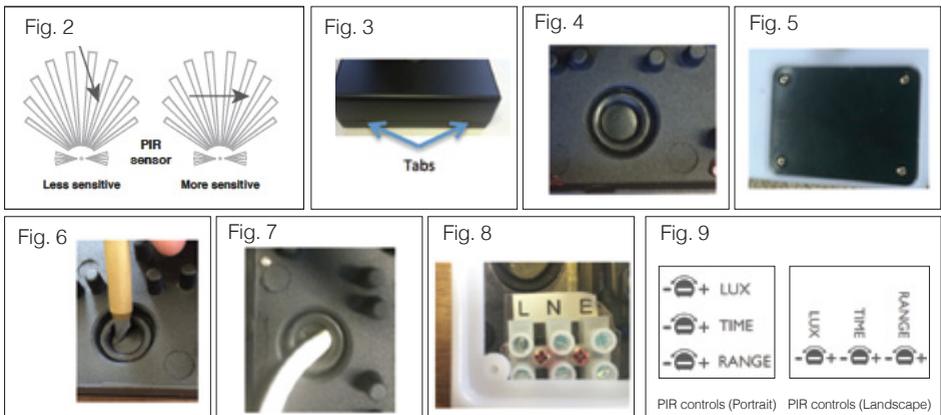
3.2 FIXING THE MIGHTYLITE ELITE

WARNING: Isolate the power supply before installation.

- Release the front fascia of the light by inserting a screwdriver into the two tabs at the bottom of the unit and gently turning [Fig.3].
- Remove the front fascia and position the unit against the wall, in the required position, ensuring the wires can easily enter the unit through the rubber grommet at the rear of the units metal base plate [Fig.4].
- Use the holes in each corner of the unit to mark the 4 drill holes required to secure the box to the wall (and mark the cable outlet location if required).
- Drill the wall and fit the wall plugs provided.
- Unscrew the 4 screws holding the connection box cover to the front of the lens unit and remove [Fig.5].
- Use a sharp knife to cut a small "X" in the rubber grommet [Fig.6] located at the back of the connection box, and feed the wire through the grommet into the light fitting.

Note: Please ensure that the wire enters the grommet from beneath [Fig.7] so any water which may find its way onto the wire cannot migrate down towards the grommet and into the back of the unit.

- The Mightylite Elite can now be fixed to the wall using the screws provided and can be wired as described in Section 4.

Fig. 2

PIR sensor

Less sensitive   More sensitive

Fig. 3

Tabs

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

L N E

Fig. 9

- + LUX
- + TIME
- + RANGE

LUX   TIME   RANGE
- +   - +   - +

PIR controls (Portrait)   PIR controls (Landscape)

4. WIRING THE MIGHTYLITE ELITE

- Once the power cable has beenbeen fed through the grommet, approximately 6mm of insulation should be stripped from each of the cores of AC cable ready to attach it to the terminal block in the front of the light fitting.

NOTE: The Hylite Mightylite Elites are Class 1 fittings and therefore need to be Earthed
CONNECTING TO POWER SUPPLY

- Connect the BROWN or RED (Live) wire to the terminal marked "L" (holding the single BROWN wire) in the light unit [Fig.8].
- Connect the BLUE or BLACK (Neutral) wire to the terminal marked "N" (holding the BLUE wire) in the floodlight unit.
- Connect the YELLOW/GREEN or bare (Earth) wire to the terminal marked "E" (holding the YELLOW/GREEN wire) in the unit.
- After the wiring has been secured, the PIR controls within the connection box should be set, as described in Section 5, before the connection box cover is screwed back onto the front of the lens unit and mains power is connected to the unit.
- The front fascia can then be clipped back onto the unit. Once the PIR controls have been set, and changes are no longer required, the cover can be secured more permanently, using strips of double-sided tape (supplied) between the cover to the lens.

PLEASE NOTE: When used externally it is advised that, after installation, a thin bead of sealant is run between the base of the Mightylite and the wall to ensure that water cannot get behind the unit.

5. SETTING THE PIR CONTROLS FOR THE MIGHTYLITE ELITE

The PIR controls for the Mightylite Elite are positioned within the connection box and can be used to control the ambient light level at which the light operates (control marked "L"); the time the light operates for after activation by the PIR (control marked "T"); and the range or sensitivity of the PIR (control marked "R").

The controls can be altered by removing the connection box cover [Fig.5] and inserting a small flathead screwdriver into the top of the control requiring adjustment, and GENTLY turning clockwise or anti-clockwise as required.

Please note that the markings showing the direction each control should be turned are on the outside of the connection box cover [Fig.9].

5.1 SETTING UP THE MIGHTYLITE

For DAYTIME testing:

- Turn the TIME control (length of time light switches on) marked "T" fully anti-clockwise to minimum setting [Fig.9] and the LUX control (ambient light level) marked "L" fully anti-clockwise to maximum setting.
- Turn on the power to the light.
- The light should light up on full power for 15 seconds then dim down until the PIR is activated, when it will again revert to full power.

5.2 SETTING THE DURATION OF THE LIGHT

- The TIME control ("T") adjusts the length of time the light goes on full power after the PIR has detected movement.
- If a moving heat source is detected, the sensor is triggered, switching on the light to full power and beginning timing out according to the pre-set TIME period. If triggered further, the light will stay on for the pre-set time period from the last trigger.
- To increase the time, gently turn the control clockwise (towards the "+").
- Time is adjustable between approximately 15 seconds to 4 minutes

5.3 SETTING THE LUX (AMBIENT LIGHT LEVEL)

- The LUX control ("F") adjusts how low the light level needs to go down to (level of darkness) before the light operates
- At the lowest level ("-") it operates at maximum darkness, at maximum level ("+") it operates in daylight

5.4 SETTING THE RANGE

- The RANGE control alters the PIR range of detection and the amount of infra-red radiation (heat) required to trigger the PIR sensor
- The RANGE control ("R") can also be used to compensate for the changes in outside air temperature in winter and summer
- To be effective but keep nuisance tripping to a minimum it is advised to turn the RANGE control to the middle position where the ambient air temperature is between 15°–20°C.

6. TECHNICAL SPECIFICATION

Ref:	MLE116PB - Portrait	MLE116PW - Portrait	MLE116LB - Landscape	MLE116LW - Landscape
Description:	16W Wall Light with PIR	16W Wall Light with PIR	16W Wall Light with PIR	16W Wall Light with PIR
Fascia:	Matt black polycarbonate	Gloss white polycarbonate	Matt black polycarbonate	Gloss white polycarbonate
Backplate:	Matt black aluminium	Matt black aluminium	Matt black aluminium	Matt black aluminium
Lens:	Opal	Opal	Opal	Opal
Wattage:	16W	16W	16W	16W
Lumens generated:	550	550	430	430
Voltage:	230V	230V	230V	230V
LED array:	60 LEDs	60 LEDs	60 LEDs	60 LEDs
Power factor:	>0.9	>0.9	>0.9	>0.9
Colour temp:	ANSI 5700K	ANSI 5700K	ANSI 5700K	ANSI 5700K
Max. LED Life:	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs
Efficiency:	<80%	<80%	<80%	<80%
Operating temp:	-32°C to +60°C	-32°C to +60°C	-32°C to +60°C	-32°C to +60°C
PIR range:	2-8m	2-8m	2-8m	2-8m
PIR angle	120°	120°	120°	120°
Activation time:	15secs - 4 mins	15secs - 4 mins	15secs - 4 mins	15secs - 4 mins
Dimensions (mm):	260(H) x 155(W) x 80(D)	260(H) x 155(W) x 80(D)	155(H) x 260(W) x 80(D)	155(H) x 260(W) x 80(D)
Weight (kg approx):	1kg	1kg	1kg	1kg
Warranty:	2 years	2 years	2 years	2 years